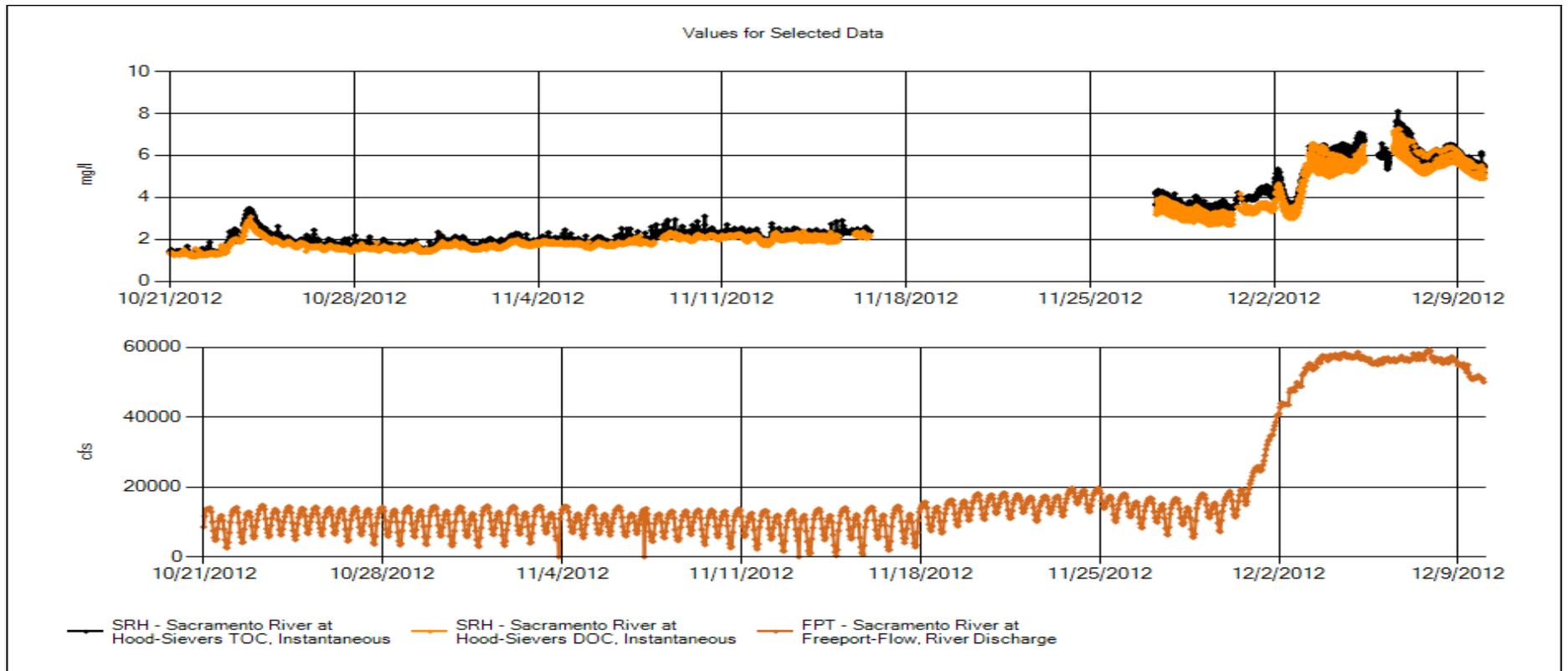


RTDF Graphical Station Update: October-December 2012

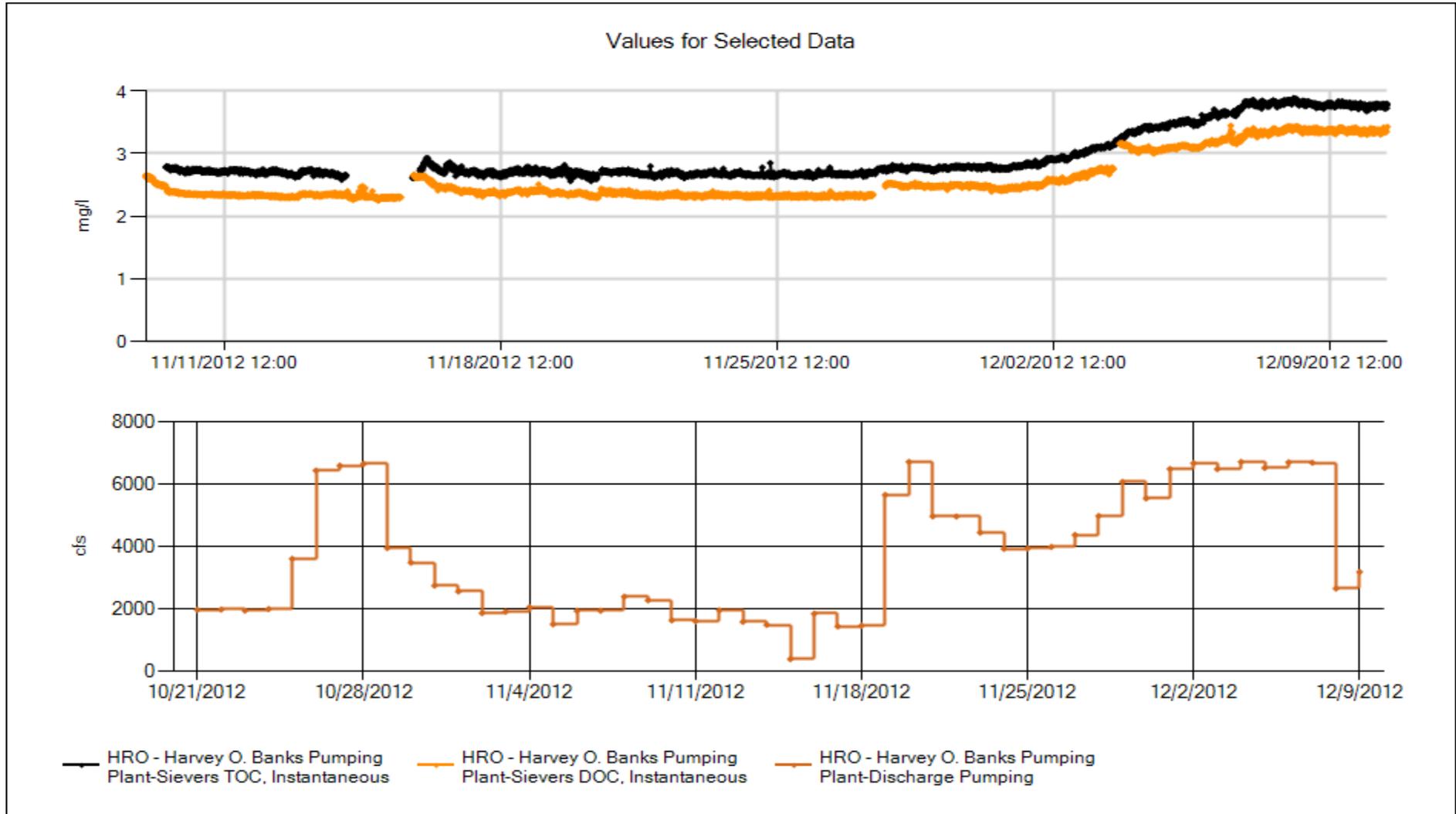
Sacramento River Organic Carbon and Flow:



Hood Station: Significant TOC and DOC Events:

- A storm event took place on **10/23**, which explains the spike in TOC and DOC.
- The Sievers analyzer was down from approximately **11/16 – 11/27** due to an error in the Sievers firmware. The firmware was updated on **11/27**. The length in the delay was mainly due to technical difficulties with the firmware installation and the Thanksgiving holiday.
- The data from **11/27** onward is much higher and eccentric due to a series of regional storm events which deposited a significant amount of debris and sediment into the Sacramento River, as well as increasing the river's flow rate.
- The Sievers unit was down for approximately 24 hours from **12/5 – 12/6**, due to clogged filters, not enough water was getting to the unit so it shut itself off.
- We're not sure why there is such a large range in the DOC data following the firmware update, starting approximately on **11/26**. I switched the stream "On" on **11/8**, which might be the cause.
- We conduct our instrument QC checks approximately every 2 weeks, in which the system is taken offline. The small periodic lapses in data reflect this.

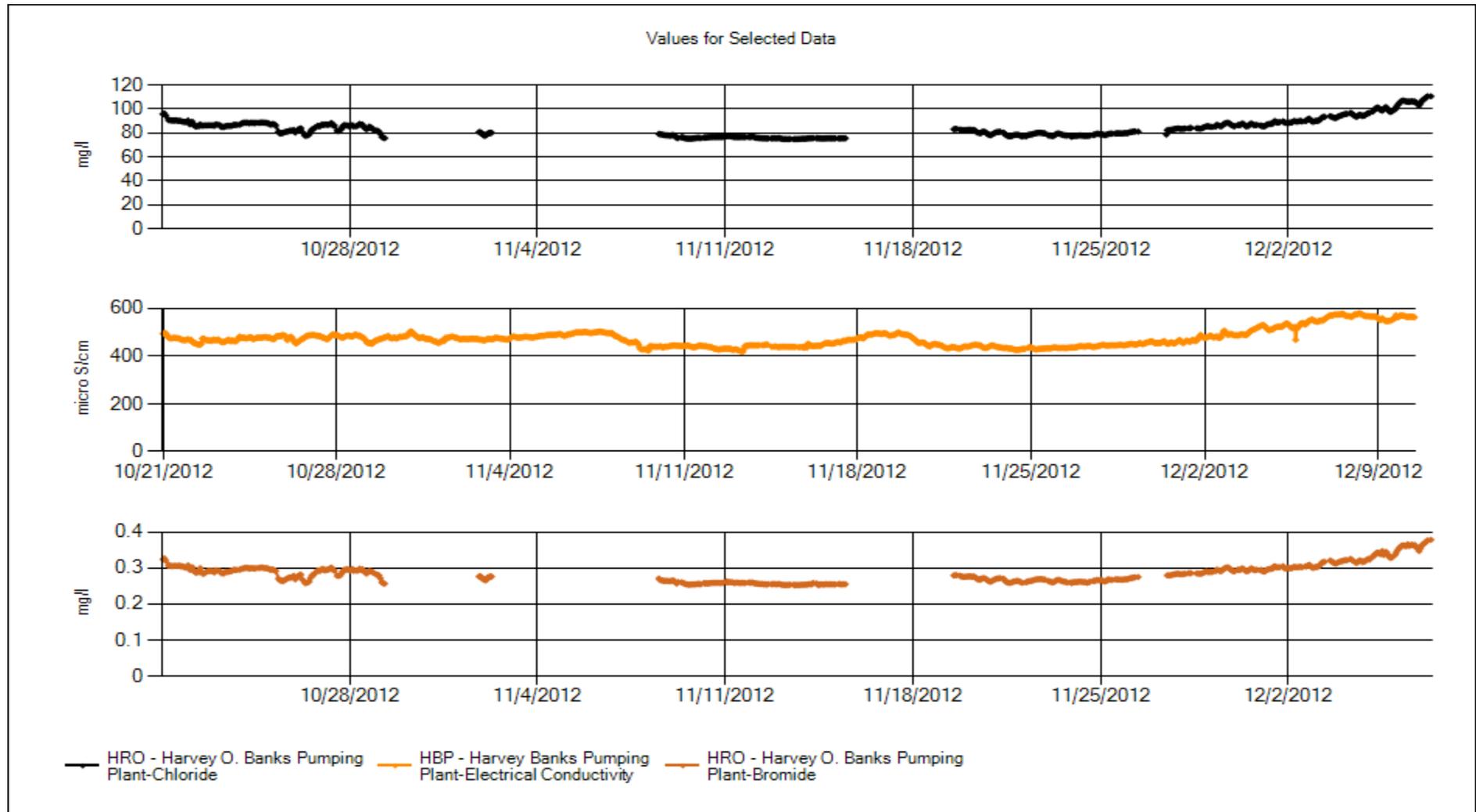
Banks Organic Carbon and Pumping:



Banks Significant Events:

- 10/22 – Delivery system filters changed.
- 11/15 – There were a series of power outages. The StreamWalker was plugged into the AOC to negate the power outage issue.
- 11/27 – Delivery system filters changed.
- 12/3 - Delivery system filters changed.

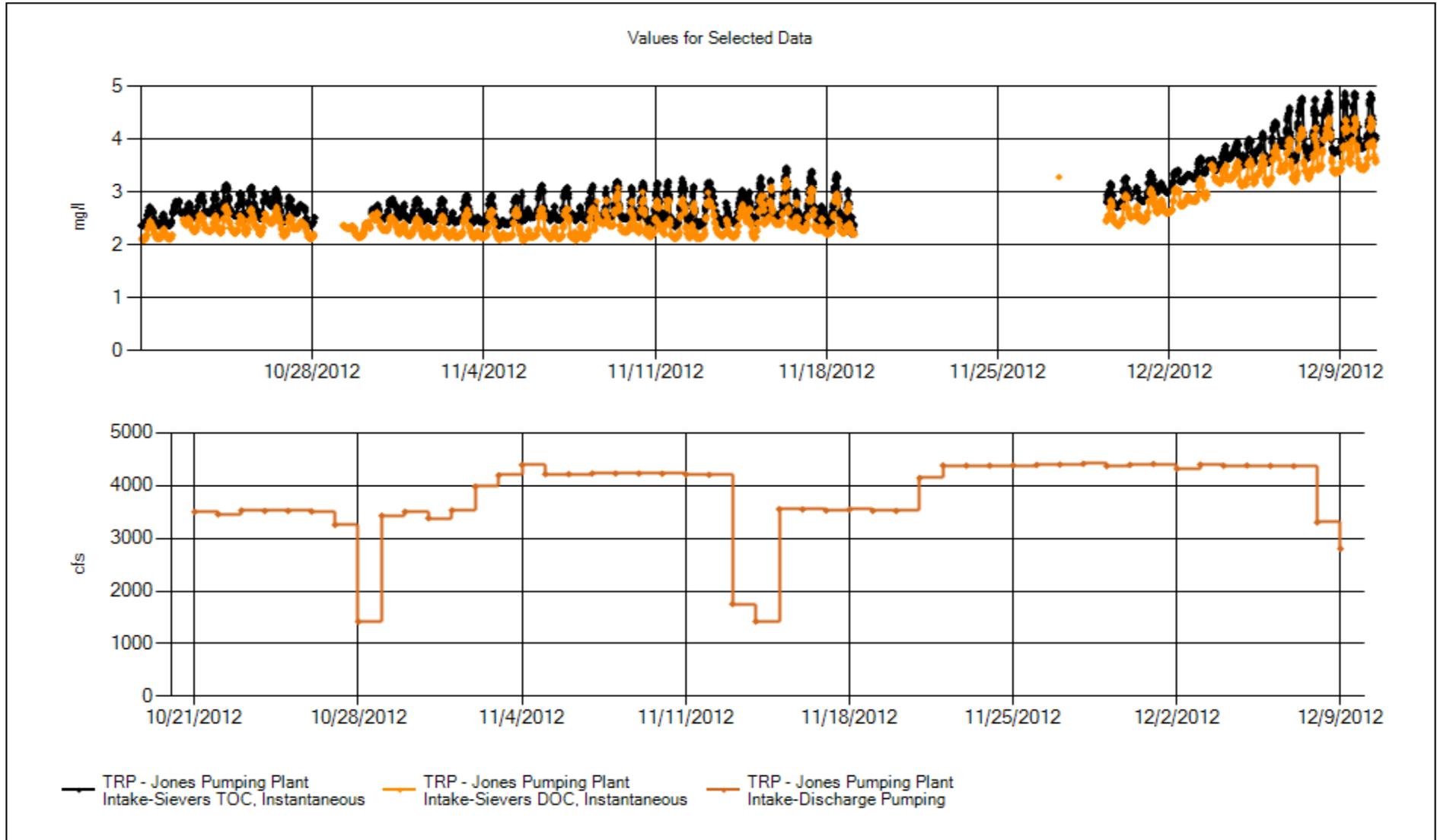
Banks Selected Anions and EC:



Banks Significant Events:

- 10/30 – Dionex overpressured.
- 11/8 – A software glitch occurred. The problem was fixed a few days later.
- 11/15 – There were a series of power outages.
- 11/27 - Delivery system filters changed.

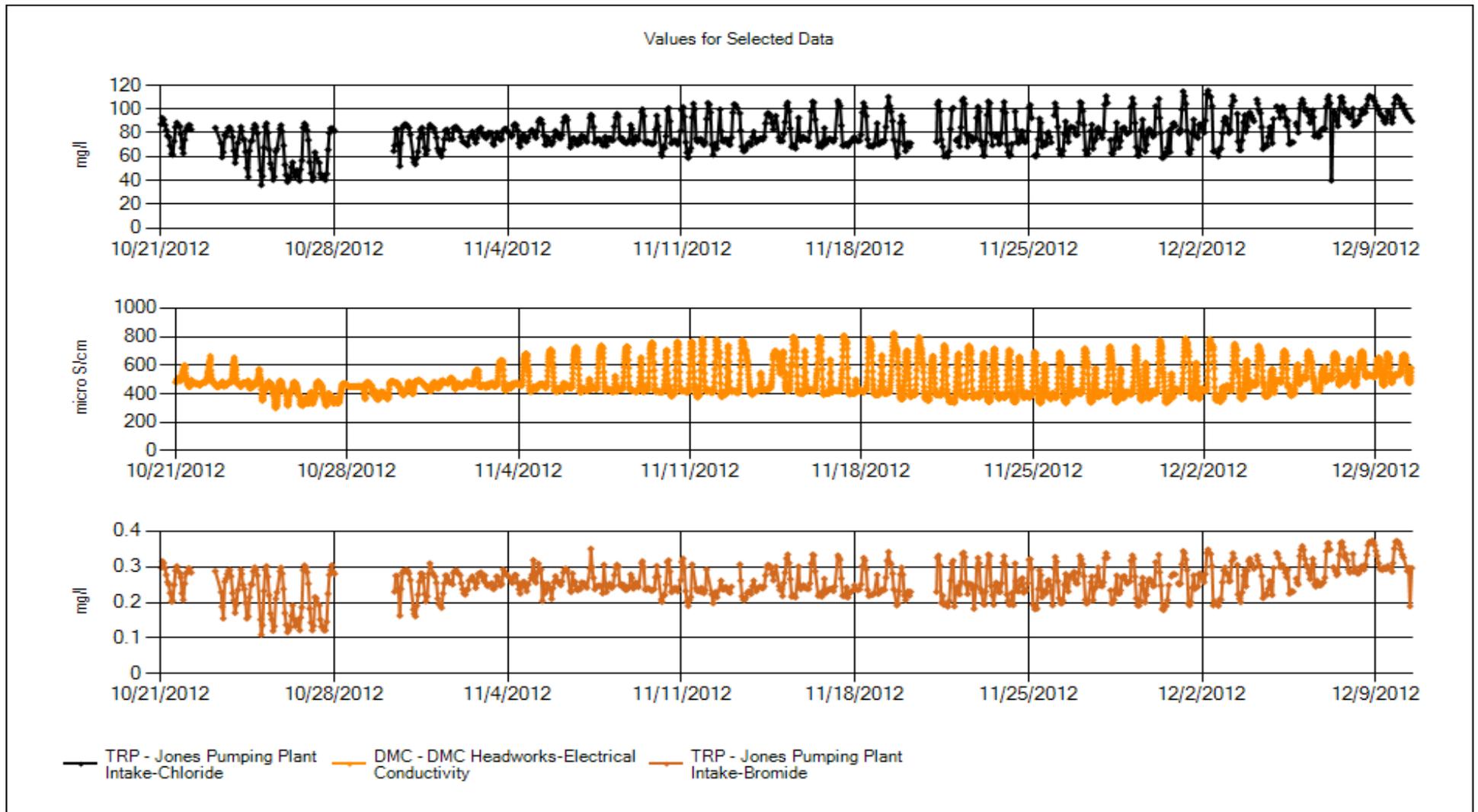
Jones Organic Carbon and Pumping:



Jones Significant Events:

- 10/29 - Delivery system filters changed.
- 11/20 - Delivery system filters changed. Main board on Sievers went out.

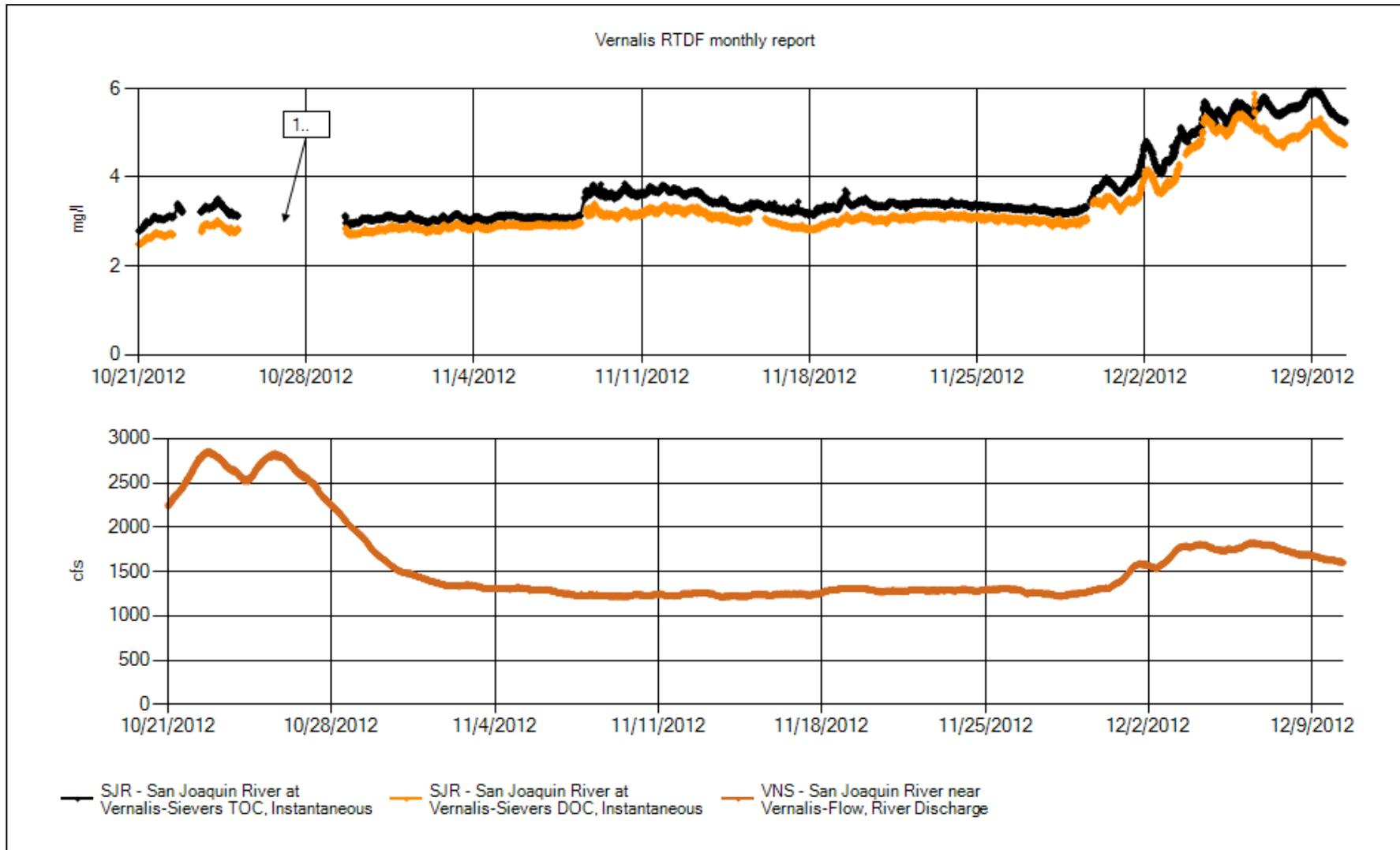
Jones Selected Anion and EC:



Jones Significant Events:

- 10/29 - Delivery system filters changed.
- 11/20 - Delivery system filters changed.

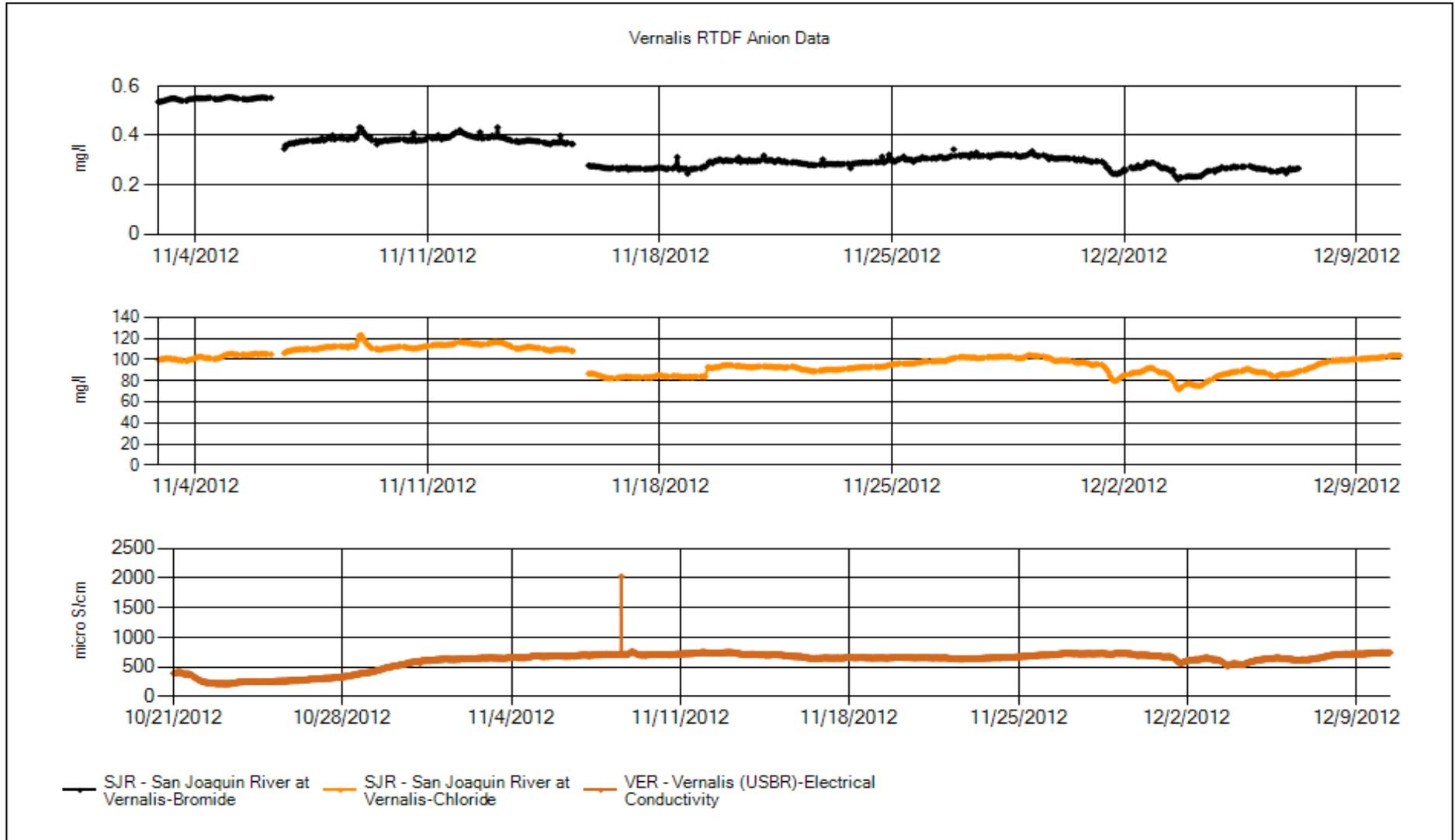
Vernalis Organic Carbon and Pumping:



Vernalis Organic Carbon Significant Events:

- Filter changes: 10/22 QC Sievers, passed, 11/8 QC passed, 11/19 QC passed, 12/3, 12/6 QC passed.
- 1. Pump/motor started to supply less water, not enough flow to Sievers. Closed the bypass, but the motor failed two days later. Arin started vacation the same day it failed, which was discovered on Friday. A new pump/motor was installed Monday the 29th.

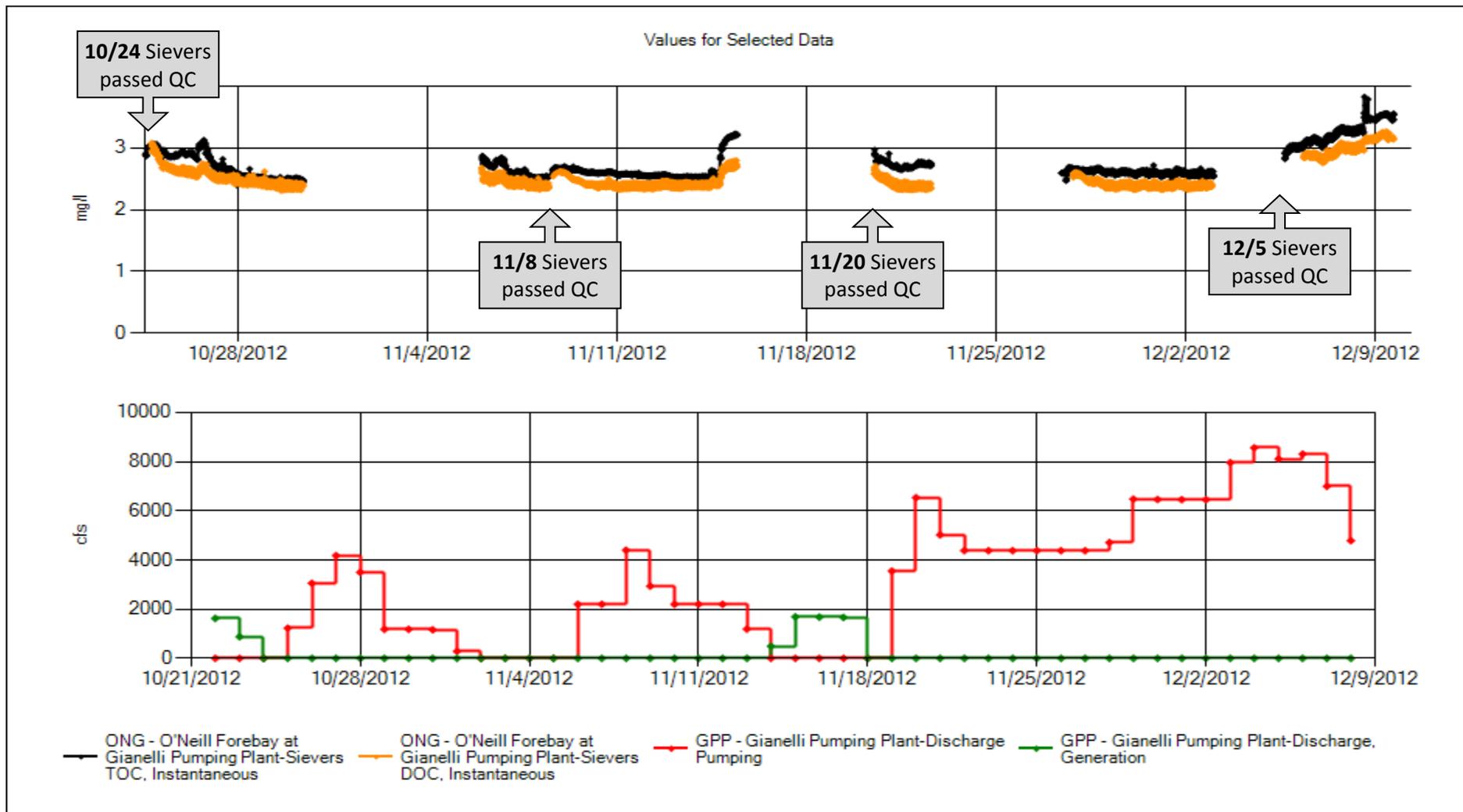
Vernalis Selected Anions and EC:



Vernalis Anion Significant Events:

- 11/7: New standards made, installed and recalibrated after initial set-up by Thermo-Fisher was complete (sample pump problems).
- 11/7-11/16: Instrument not properly calibrated so values are falsely high and should be disregarded.
- 11/16: Sample delivery line volume was calibrated and corrected using standards. QCs from this point forward looking good.

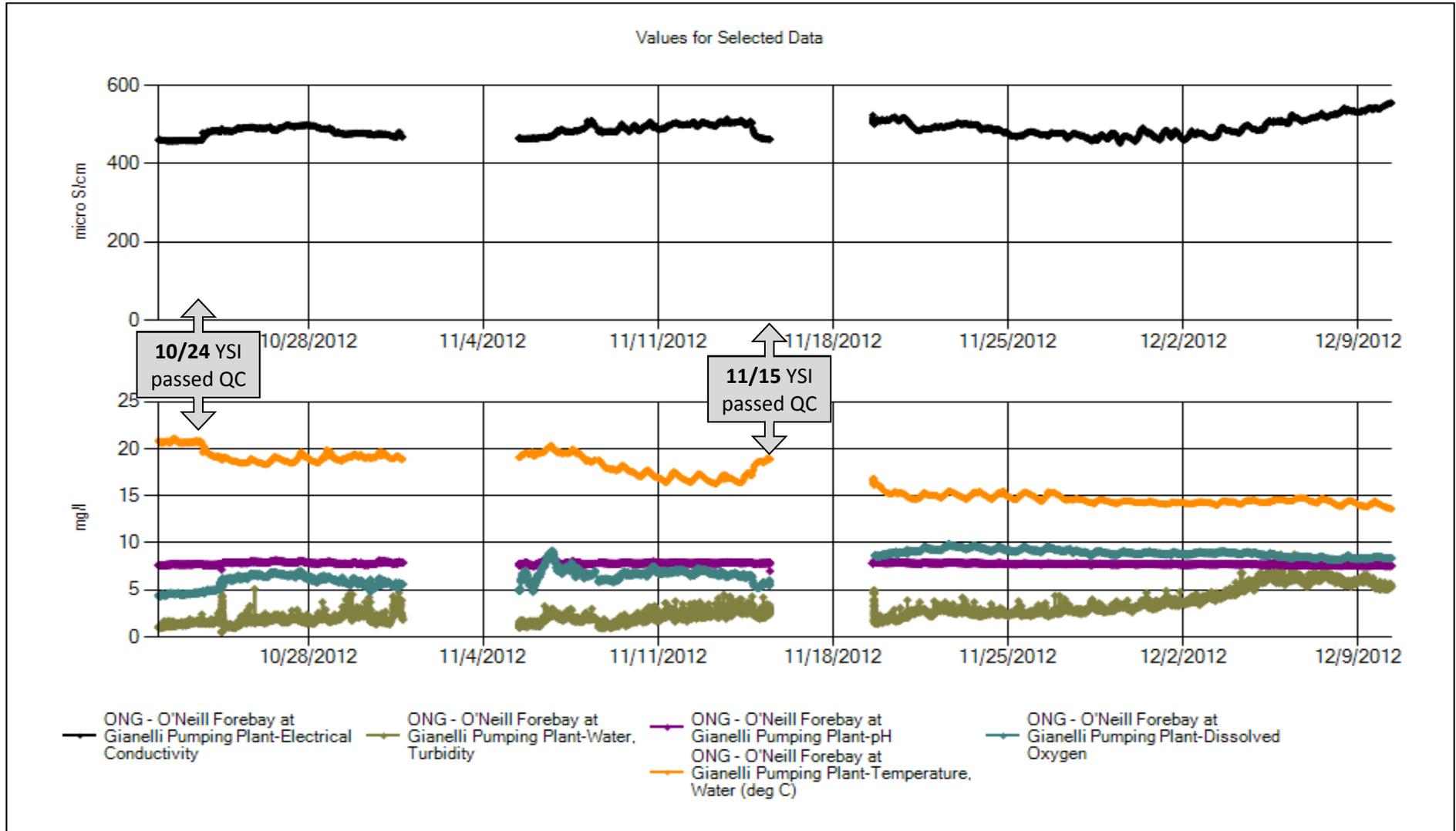
Gianelli Organic Carbon and Pumping/Generation:



Gianelli Significant TOC Events:

- Lost network connection from **10/30** to **11/5**.
- Pump stopped working from **11/15** to **11/19**.
- Data archive filled up and stopped analysis from **11/22** to **11/27**.
- Instrument had a syringe error from **12/3** to **12/5**.

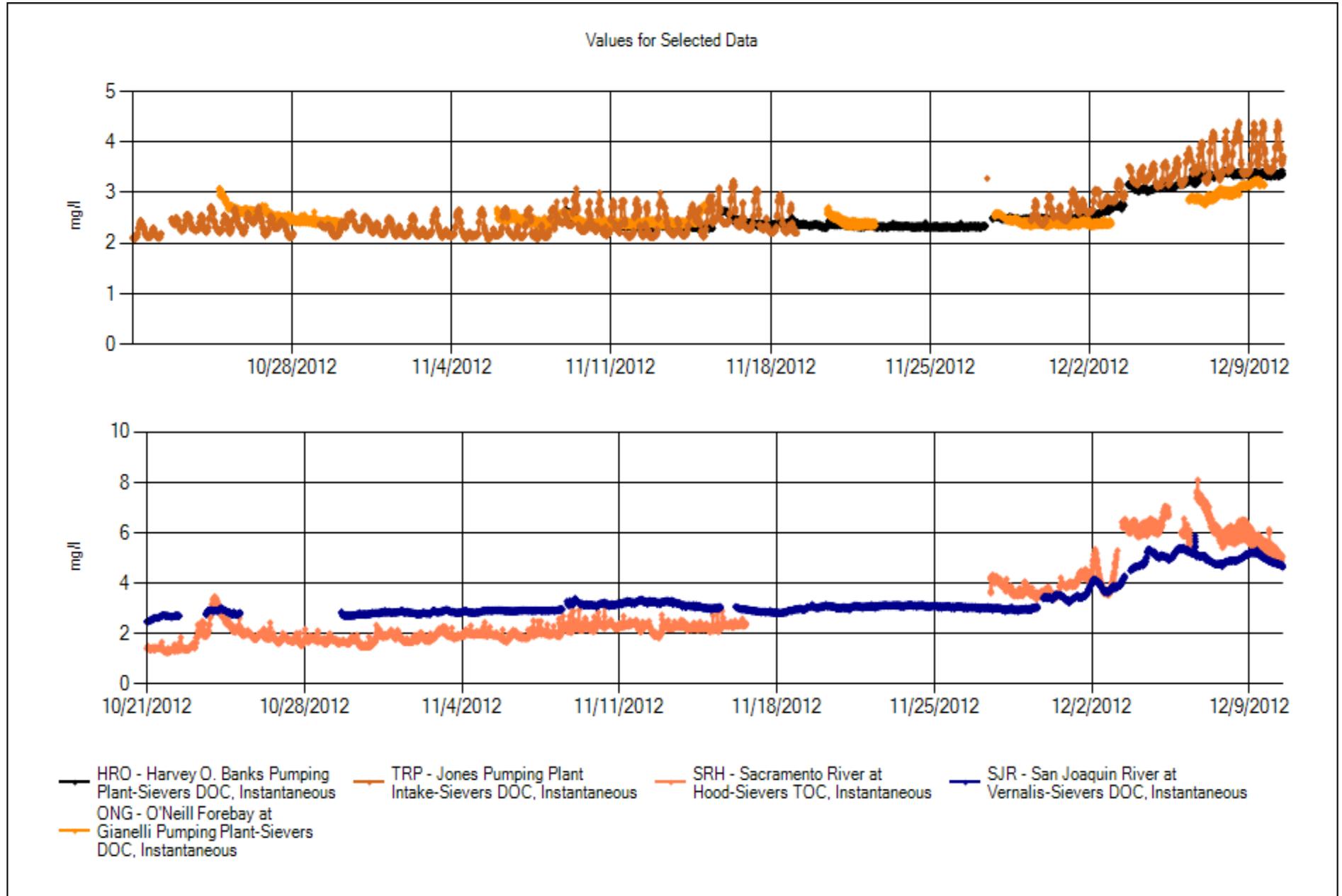
Gianelli YSI Sonde Data:



Gianelli Significant Sonde Events:

- Network connection error from **10/31** to **11/5**.
- Pump stopped working from **11/15** to **11/19**

DOC at All Stations:



Bromide and EC at Banks, Jones, and Vernalis:

